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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,442	04/07/2004	Mikko Makela	042933/378783	7157

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EXAMINER
TANK, ANDREW L

ART UNIT	PAPER NUMBER
2175	

MAIL DATE	DELIVERY MODE
01/07/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *29 August 2009*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,14,15 and 25-41* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,14,15 and 25-41* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

The following action is in response to the amendment filed August 28, 2009. No claims have been amended. **Claims 1, 14, 15 and 25-41** are pending and have been considered below.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-7 and 10-24 are rejected under 35 U.S.C. 102(a) as being anticipated over <u>Chen, Y., Ma, W. J., and Zhang, H. J.</u> "Detecting Web Page Structure for Adaptive Viewing on Small Form Factor Devices," *Proceedings of the 12th international conference on World Wide Web (WWW 2003)*, May 20-24, 2003, Budapest, Hungary, previously presented as "<u>Chen</u>".

Claims 1, 14, 15, 32, 36, and 37:

With regards to claim 1, Chen discloses a method comprising:

at least partially dividing at least one page into a plurality of areas (page 2, paragraph 4: "From the extracted structure, different content blocks are identified.");

presenting said plurality of areas in a first representation (page 6 paragraph 1: "the user will first receive an index page", paragraph 11: "We generate a thumbnail image for the original web page, and mark the content blocks with different colors.");

making at least one area of said plurality of areas an active area (paragraph 11: "We generate a thumbnail image for the original web page, and mark the content blocks with different colors."); and

in response to a user operation on said at least one active area, presenting at least one of said at least one of said at least one active areas in a second representation (page 6 paragraph 1:

"the user to access each sub-page through the hyperlinks in the index page", page 8, Fig. 18(a)

Page Splitting),

wherein said at least partially divided at least one page into a plurality of areas comprises

element-wise rendering elements contained in said at least one page to obtain a rendered object

with a maximum height and a maximum width, checking if a size of said rendered object

exceeds a threshold and forming an area from said rendered object if said threshold is exceeded

(page 3 3.2.1 Selecting Nodes: "We try to classify a node into one of the header, footer, left side

bar and right side bar blocks. If it belongs to non of the above, then we check if it is small

enough to put into the body block. A pair of thresholds (one for width and the other for height)

is used to determine whether a node is small enough. If the node exceeds the thresholds, it will

be split further. The above process is iterated until all the nodes are classified into the five high-

level blocks."), and further comprises checking if at least one edge of said formed area is not

straight, and forming a smaller area from said rendered object if at least one edge is not straight

(pages 3-4 3.2.2 Detection of Header and Footer: Fig. 6(a) areas 1 and 2 do not form a straight

edge, both cannot belong to header, a smaller area 2 is formed to belong to header region).

With regards to claims 14, 15, 32, 36 and 37, each recite limitations similar to claim 1 and are

rejected for similar reasons.

Claims 25, 29, 33 and 39:

With regards to claim 25, Chen discloses the method as in claim 1 above, and further disclose

wherein said at least partially dividing at least one page into a plurality of areas comprises

checking if a formed area can be combined with a previously formed area, and combining said

formed area and said previously formed area if they can be combined (Fig. 12: detect patterns -

merge). Claims 29, 33, and 39 recite limitations similar to claim 25 and are rejected for similar reasons.

Claims 26, 30, 34 and 40:

With regards to claim 26, Chen discloses the method as in claim 25 wherein formed areas may be combined, and further discloses wherein areas are combined if they have a similar width, are horizontally similarly positioned and if their combined size does not exceed a threshold (Page 5 paragraph 5: "A similarity measure based on text font, size, color and tag properties is applied to cluster the atomic nodes into groups...Among the patterns with the highest frequency, we select the longest one and group the pattern using a new symbol if its length is larger than 1. If the length is equal to 1, we try to merge it with the adjacent symbols."). Claims 30, 34 and 40 recite limitations similar to claim 26 and are rejected for similar reasons.

Claims 27, 31, 35 and 41:

With regards to claim 27, Chen discloses the method as in claim 1 above, and further discloses wherein said at least partially dividing at least one page into a plurality of areas comprises checking if a formed area has to be re-sectioned, and re-sectioning said formed area if said formed area has to be re-sectioned, wherein said re-sectioning comprises forming a new area which is smaller than the presently formed area (pages 3-4 3.2.2 Detection of Header and Footer: Fig. 6(a) areas 1 and 2 do not form a straight edge, both cannot belong to header, a smaller area 2 is formed to belong to header region). Claims 31, 35 and 41 disclose limitations similar to claim 27 and are rejected for similar reasons.

Claim 28:

With regards to claim 28, Chen discloses the apparatus as in claim 15 above, and further

discloses wherein apparatus is a mobile phone (page 1 paragraph 1: "mobile device", paragraph

3: "smart phones").

Claim 38:

With regards to claim 38, Chen discloses the apparatus as in claim 37 above, and further

discloses wherein apparatus is a content optimization server (page 7 paragraph 4: "conducted on

a personal computer with 1.7GHz CPU and 512M main memory").

Response to Arguments

Applicant's arguments filed August 28, 2009, have been fully considered but they are not

persuasive.

Applicant argues, on pages 3-4, that Chen does not disclose "element-wise rendering" as claimed

in claim 1. The Examiner respectfully disagrees. Chen discloses the use of threshold

determination to determine areas wherein if an area exceeds a threshold, it is split until it no

longer exceeds the threshold and is added to the body area. This corresponds to the claimed

feature: "checking if a size of the rendered object exceeds a threshold, and forming an area from

said rendered object if said threshold is exceeded". There is no mention in the claim that

precludes further splitting from happening in order to achieve the result of "forming an area" as

claimed. The argument is not persuasive.

Applicant argues, on pages 5-6, that Chen does not disclose the claimed feature of forming a

smaller area from the rendered object if at least one edge of the formed area is not straight. The

Examiner respectfully disagrees. Chen discloses a dynamic threshold for the header region in

order to help define the header area. This threshold changes to include the most header like

element. Given Applicant's example on page 6 of the arguments, header region would further

divide into smaller areas until the smaller area 3 is the header area, thereby changing region 3

from having a jagged edge (not straight), to a straight edge, that of region 3. The argument is not

persuasive.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as

set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Andrew Tank whose telephone number is 571-270-1692. The examiner

can normally be reached on Mon - Thur 0830-1700 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

William Bashore can be reached on 571-272-4088. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. T./
Examiner, Art Unit 2175
December 29, 2009

/William L. Bashore/

Supervisory Patent Examiner, Art Unit 2175